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ELEVATIONS IN FEET

ALL ELEVATION VALUES (AERONAUTICAL, RELIEF AND HYDROGRAPHIC) ARE BASED ON MEAN SEA LEVEL.

LEGEND

RELIEF PORTRAYAL

Elevations are in feet. HIGHEST TERRAIN elevation is
9505 feet
located at 20°26'S 41°48'W

TERRAIN CHARACTERISTIC TINTS

Green color indicates flat or relatively level terrain regardless of altitude above sea level.

CONTOURS

Basic interval 1000 feet
Intermediate contours shown at 250, 500 and 1500 feet

SPOT ELEVATIONS

Accurate elevations .5000
Elevations are accurate to within 100 feet .5000
Questionable elevations .5000
Maximum possible vertical error is 1,250 feet .5000
Location doubtful/unchecked .5000
Vertical secondary unknown .5000
Critical elevation .5000
Lake elevation
Erosion elevation

CULTURE

Actual city outline — Towns and villages (outlines unknown)
Landmark feature (unillustrated) — Dual lane roads
Primary roads — Secondary roads
Single track R. R. — Multiple track R. R.
Lookout tower — Power transmission line

ATTENTION

THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)

The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle, including terrain and obstructions, (trees, towers, antennae, etc.).

Example: 12,500 feet: 12 5

AERONAUTICAL INFORMATION

AERODROMES

Major — Ref. No. 206
Major, runway pattern not available — Ref. No. 312

Major aerodromes portrayed have a hard surface runway length of 3000 feet or more. Runway patterns and 6000 feet diameter circle is shown at 1:500,000 scale. When runway pattern is not shown, the number following the name indicates length of the longest runway to the nearest hundred feet.

Minor — Ref. No. 186

VERTICAL OBSTRUCTIONS

Single — Ref. No. 230; Multiple — Ref. No. 230
Highest vertical obstruction within ticked lines of latitude and longitude — 1476 (686)
Radio facility obstruction — Ref. No. 230
1476 (686) Height of top above mean sea level (MSL) / Height of top above ground level (AGL)

VERTICAL OBSTRUCTIONS SHOWN HAVE BEEN SELECTED FROM INFORMATION AVAILABLE AS OF APRIL 1970

All vertical obstructions 200 feet AGL and higher cannot be portrayed due to chart scale and feature density. In general, the highest obstruction in each 3 minute by 3 minute matrix (originating on full degree intersection) is shown. However, in areas of dense culture, this pattern is further reduced to enhance clarity.

CAUTION

Vertical Obstructions, including powerlines, have been extracted from the most reliable sources available, however, there is no assurance that all are shown or that their locations or heights are exact.

RADIO FACILITIES

- VHF OMNI RANGE (VOR)
- VORTAC
- TACAN
- VOR DME
- Other Facilities

SPECIAL USE AIRSPACE

LFR45

Alert, Danger, Military Operations Area, Prohibited, Restricted or Warning Areas. Numbers indicate internationally recognized numerical identifications. Airspace limit line widths are reduced and/or dashed in areas of overlap for clarity only.

All Special Use Airspace is portrayed in the body of this chart with the following exceptions:
Those activated by NOTAM.

VEGETATION

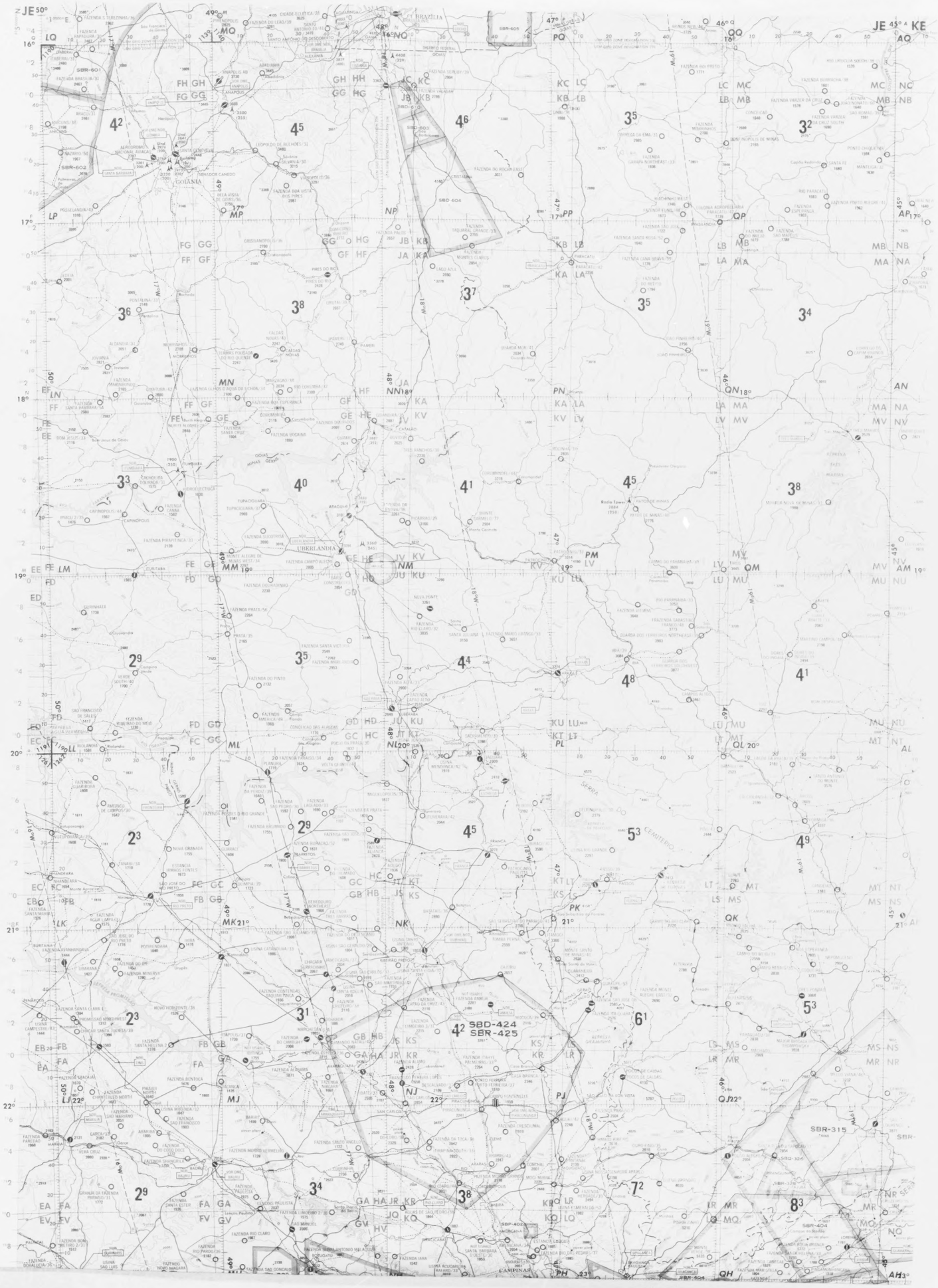
To assure legibility of significant relief, vegetation patterns are shown in relatively level areas only.

Vegetation .....

Clearings .....

NOTES

The representation of boundaries is not necessarily authoritative.



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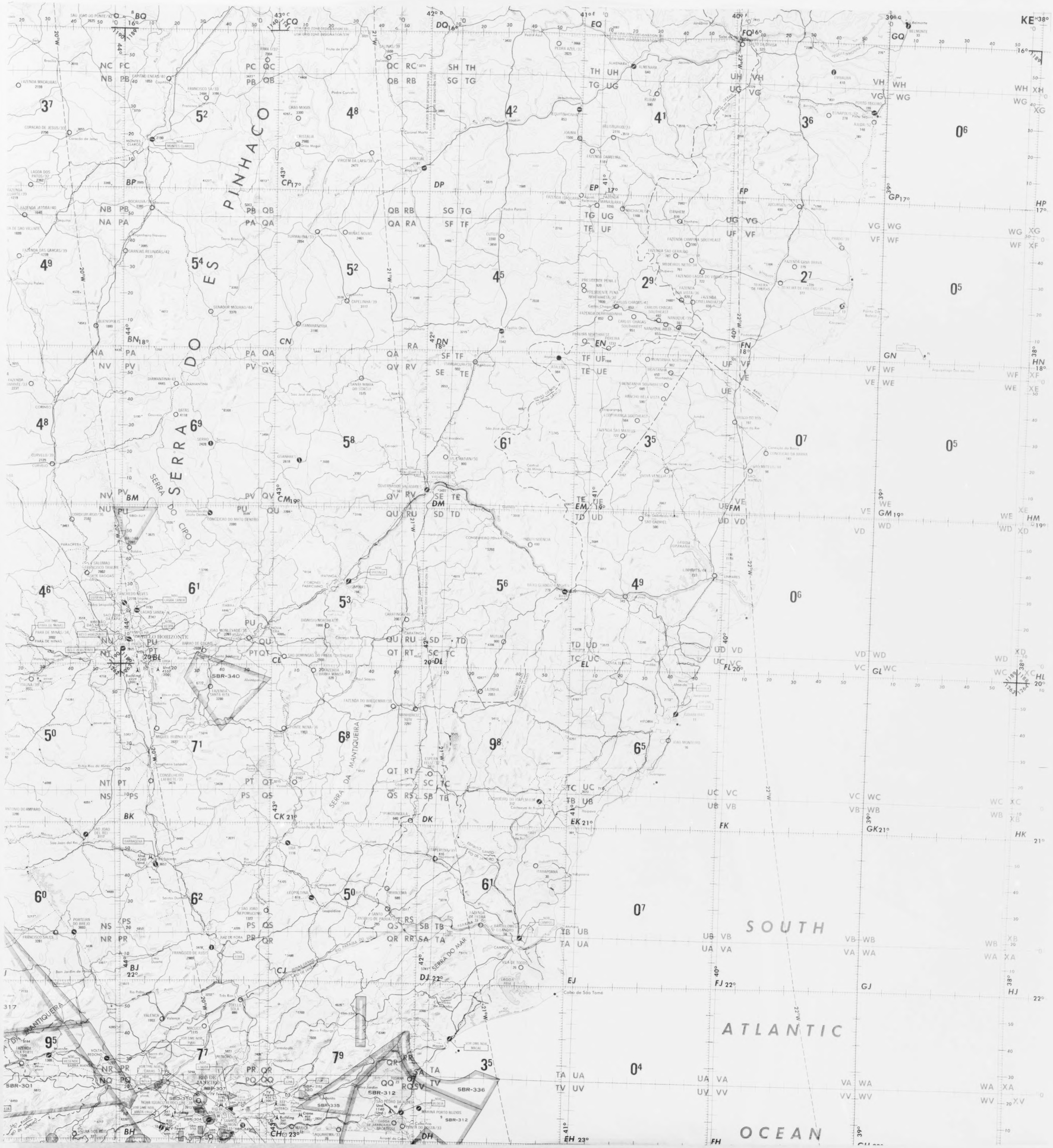
SERRA DO PINHACO
SERRA DO ESPINHAÇO
SERRA DO CIPÓ
SERRA DA MANTIQUEIRA
SERRA DO MAR
SOUTH
ATLANTIC
OCEAN
BELO HORIZONTE
RIO DE JANEIRO
SBR-340
SBR-301
SBR-307
SBR-310
SBR-304
SBR-335
SBR-312
SBR-336

SPOT ELEVATIONS

Accurate elevations	.5000
(Elevations are accurate to within 100 feet.)	
Questionable elevations	.(5000)
(Maximum possible vertical error is ±350 feet.)	
Location Undetermined	5000
(Vertical accuracy unknown)	
Critical elevation	.5000
Lake elevation	5000
Season elevation	5000

CULTURE

Actual city outline — Towns and villages (outlines unknown)

Landmark feature (unillustrated) — Dual lane roads

Primary roads — Secondary roads

Single track R. R. — Multiple track R. R.

Lookout tower — Power transmission line

ATTENTION

THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)

The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle, including terrain and obstructions. (Trees, towers, antennas, etc.)

Example: 12,500 feet — 12^{5}

AERONAUTICAL INFORMATION

AERODROMES

Major — NCA 700

Major, runway pattern not available — (NZC-42) 312

Major aerodromes portrayed have a hard surface runway length of 3000 feet or more. Runway patterns and 6000 feet diameter circle is shown at 1:500,000 scale. When runway pattern is not shown, the number following the name indicates length of the longest runway to the nearest hundred feet.

Minor — BIMO 180

VERTICAL OBSTRUCTIONS

Single: 961 / 1330 Multiple — 961 / 1330

Highest vertical obstruction within ticked lines of latitude and longitude — 1478 / (686)

Radio facility obstruction: 961 / 1330

1478 — Height of top above mean sea level (MSL)

(686) — Height of top above ground level (AGL)

VERTICAL OBSTRUCTIONS SHOWN HAVE BEEN SELECTED FROM INFORMATION AVAILABLE AS OF APRIL 1990.

All vertical obstructions 200 feet AGL and higher cannot be portrayed due to chart scale and feature density. In general, the highest obstruction in each 3 minute by 3 minute matrix (originating at full degree intersection) is shown; however, in areas of dense culture, this pattern is further reduced to enhance clarity.

CAUTION

Vertical Obstructions, including powerlines, have been extracted from the most reliable sources available; however, there is no assurance that all are shown or that their locations or heights are exact.

RADIO FACILITIES

- VHF OMNI RANGE (VOR)
- VORTAC
- TACAN
- VOR DME
- Other Facilities

SPECIAL USE AIRSPACE

LFR45

Alert, Danger, Military Operations Area, Prohibited, Restricted or Warning Areas. Numbers indicate internationally recognized numerical identifications. Airspace limit line widths are reduced and/or dashed in areas of overlap for clarity only.

All Special Use Airspace is portrayed in the body of this chart with the following exceptions: Those activated by NOTAM.

VEGETATION

To assure legibility of significant relief, vegetation patterns are shown in relatively level areas only.

Vegetation

Clearings

NOTES

The representation of boundaries is not necessarily authoritative.

Civil users may purchase DMAAC products by ordering them from the following address:
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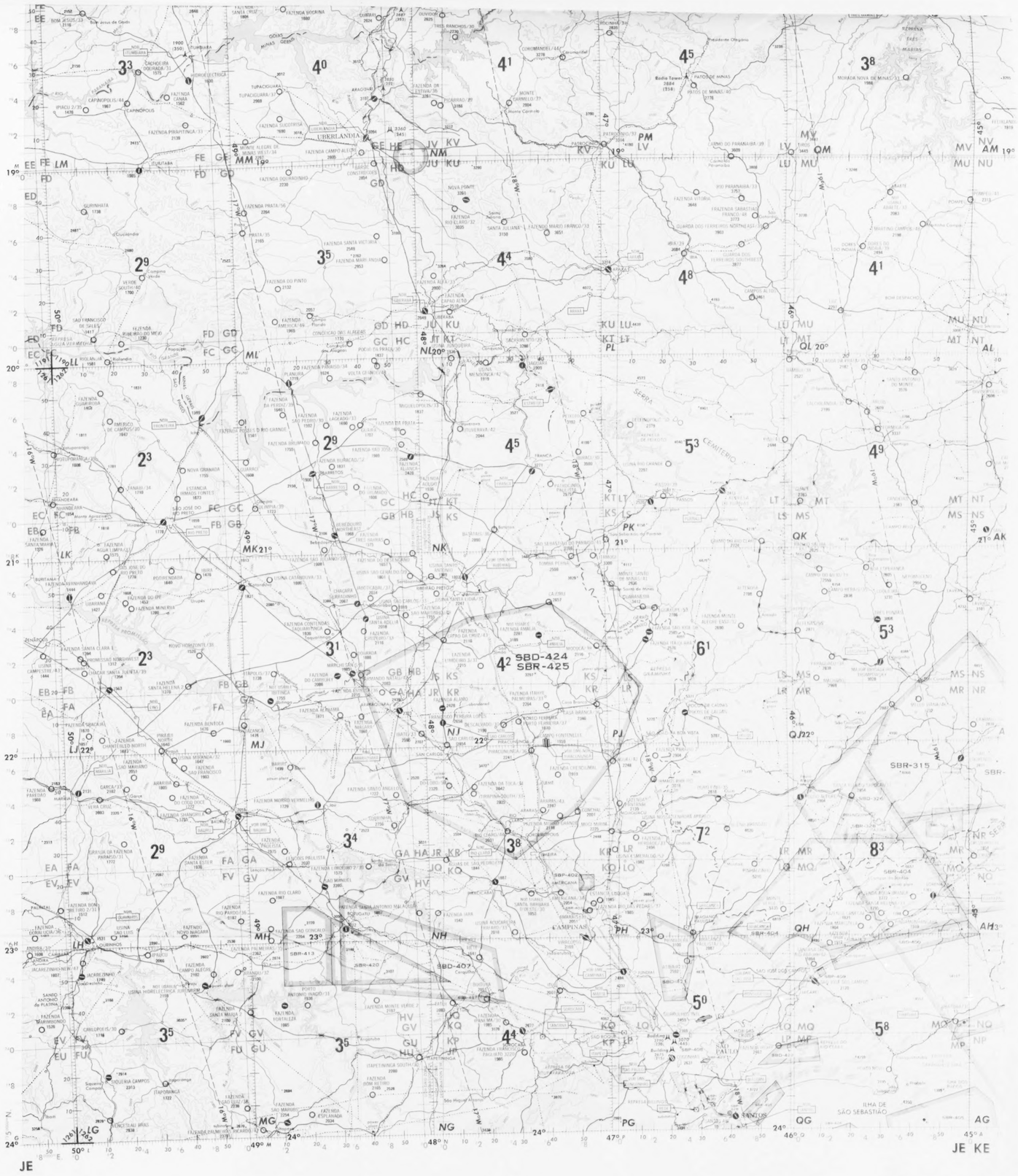
Washington, DC 20315-0020



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BRAZIL

SCALE 1:1,000,000

Lambert Conformal Conic Projection
Standards Parallels 17°20' and 23°40'
Convergence Factor .34215

Prepared and published by Defense Mapping Agency Aerospace Center, St. Louis, Missouri.
Compiled January 1990.

Lithographed By DMAAC 10-90

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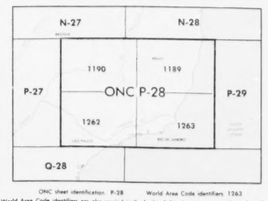
INTERCHART RELATIONSHIP



ONC sheet identification: P-28 World Area Code identifiers 1263
World Area Code identifiers are also carried in the body of this chart by corner ticks and numbers.

ELEVATIONS IN FEET

CONVERSION OF ELEVATIONS

NAUTICAL MILES
STATUTE MILES
KILOMETERS

OPERATIONAL NA
1:1,00

CAUTION

AIR INFORMATION CURRENT THROUGH 2 APRIL 1990.

Before using this chart, consult the current DMA Aeronautical Chart Updating Manual (CHUM)/CHUM Supplement, and the latest Flight Information Publications (FLIP); and Notices to Airmen (NOTAMS) for vital updating information.

LINES OF EQUAL MAGNETIC VARIATION 1985 (Annual Rate of Change - 9' increase)

STOCK NO. ONCXXP28

VIGATION CHART
0,000

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